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Canada Centre for Mineral and Energy Technology | Centre canadien de la technologie des minéraux et de l'énergie

ISO/REMCO - TC 69/SC 6 JOINT WORKING GROUP MEETING
ISO/REMCO 9th ANNUAL MEETING
GENEVA, SWITZERLAND, 1983-09-09/15

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ISO/REMCO -TC 69/SC 6 JOINT WORKING GROUP MEETING
ISO/REMCO 9th ANNUAL MEETING
GENEVA, 1983-09-09/15

by

R. Sutarno*

This report covers the ISO/REMCO - TC 69/SC 6 joint working group meeting held in Geneva, 1983-09-09/10, to discuss the preparation of ISO Guide 35, and that part of the ISO/REMCO 9th Annual Meeting held in Geneva, 1983-09-09/15, dealing with the preparation of the same ISO Guide. Other topics discussed at the REMCO meeting will be reported by the leader of the Canadian delegation.

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ISO/REMCO TC 69/SC 6 ASSEMBLÉE DE TRAVAIL EN ÉQUIPE
ISO/REMCO 9éme ASSEMBLÉE ANNUELLE
GENÈVE 1983 09 09/15

par

R. Sutarno

Le présent compte rendu englobe les résultats de l'assemblée de travail en équipe de l'ISO/REMCO qui a eu lieu à Genève les 9 et 10 septembre 1983, afin de discuter au sujet de la préparation du guide 35 de l'ISO, ainsi que la partie de la 9éme assemblée annuelle, qui a eu lieu au même endroit du 12 au 15 septembre 1983, pour la préparation du même guide ISO. Le directeur de la délégation canadienne fera le compte rendu des autres sujets de discussion à l'assemblée REMCO.

MEETING OF ISO/TC 69/SC 6 - REMCO - JOINT WORKING GROUP
GENEVA, 1983-09-09/10

This meeting was held in the ISO Central Secretarial Building and was attended by the following members of the joint working group:

G.A. Uriano - USA, Chairman of REMCO
K.R. Eberhardt - USA, REMCO
T. Miyazu - Japan, TC 69/SC 6
P.T. Wilrich - Germany, Chairman of TC 69/SC 6
R. Sutarno - Canada, TC 69/SC 6 and REMCO

Absent members were H. Marchanise (Belgium - REMCO) and R. Kaarls (Netherlands - TC 69/SC 6) replacing H.C. Hamaker. Both sent their comments in writing.

Technical discussion

This meeting was devoted entirely to the discussion of draft ISO Guide 35 - General and Statistical Principles for the Certification of Reference Materials. The following documents were discussed simultaneously:

a. Introduction (Chapter 0) and Role of Reference Materials in Measurement Systems (Chapter 1, Section 1.0-1.6) (Dr. J. Cox and Mr. G. Uriano) — ISO/REMCO 97

b. Certification by a Definitive Method in a Single Laboratory (Chapter 2) (Dr. K. Eberhardt) — ISO/REMCO 98

c. Certification by Interlaboratory Consensus (Chapter 3) (Dr. R. Sutarno and Dr. H. Steger) — ISO/REMCO 99

In addition, the following documents which are comments on the above main documents were also discussed:

d. "Comments of Japan on Draft ISO Guide 35",
ISO/TC 69/SC 6 - REMCO - Joint Group (Japan-4)

e. "Comments of Japan on Document ISO/REMCO 99",
ISO/TC 69/SC 6 - REMCO - Joint Group (Japan-5)

f. "Assessment of Methods of Assigning Certified Values to RMs",
ISO/REMCO 102

g. "Draft ISO Guide 35 - General and Statistical Principles for the Certification of RMs - Comments by Y. Mashiko - JSA",
ISO/REMCO 103

h. "Comments on ISO/REMCO 98 by R. Kaarls", Telex to M. Parkany 1983-09-08

There were few technical changes made to the main documents. The major changes were in the form of restructuring the documents and the deletion of the reference to the uses of reference materials. This subject, due to its complexity, will be dealt with separately. It was agreed that both committees will give high priority to producing a separate guide for the uses of reference materials.

The purpose of restructuring the main documents was to avoid redundancy and to comply with ISO form. These documents were then combined into a seven chapter draft Guide 35. This restructured draft was presented for discussion at the 9th REMCO meeting during the following week. The final revised draft will then be distributed simultaneously to the member bodies of both TC 69/SC 6 and REMCO and will be discussed at the TC 69/SC 6 meeting, scheduled for April 1984. A more detailed report of this joint meeting is appended in this report.

The joint working group agreed to meet again whenever the need arises.

NINTH MEETING OF ISO/REMCO
GENEVA, 1983-09-12/15

The meeting was held in the ISO Central Secretariat building and was attended by delegates from 10 countries, USA, Netherlands, France, UK, Japan, Hungary, Sweden, South Africa, Canada and Germany as well as delegates from the liaison organizations, WHO, IAEA, WASP and IUPAC. This report covers only the discussion concerning the result of the work of the joint working group between REMCO and ISO/TC 69/SC 6, namely the discussion of the draft of ISO Guide 35 and the related topics. A complete meeting report will be submitted by the leader of the Canadian delegation.

Draft of ISO Guide 35

The discussion of this draft took most of the time available. The newly restructured draft was discussed clause by clause. The meeting was sometimes slowed down by detailed editorial problems. Some delegates seem to put undue importance on minor editorial matters. The only technical objection to the document was the feeling of hesitation regarding the "definitive" methods, i.e., methods that are assumed to be free from bias, used for certification of RMs (mainly by NBS). Another technical matter was the delegates' decision to delete the chapter on the uses of reference materials (Chapter 7). This chapter will be long enough to be issued as a separate guide. Finally the committee requested G. Uriano (USA) to reissue the draft ISO Guide 35, taking into account all the comments made during the meetings, before December 1, 1983 (Resolution 2). This new draft will then be circulated simultaneously to member bodies of both REMCO and ISO/TC 69/SC 6. For the preparation of the draft of ISO Guide on the use of reference materials, the committee requested K.R. Eberhardt (USA) and R. Sutarno (Canada) to prepare an expanded version of document ISO/REMCO 72 (Resolution 5). In connection with this subject, Canada submitted the CANMET Mineral Sciences Laboratories Division Report MRP/MSL 83-102 (OP) entitled "Preparation and uses of powder compositional reference materials- A statistical consideration", for circulation as an ISO/REMCO working document.

CONCLUSION

The main item of the ISO/REMCO -TC 69/SC 6 joint working group and to a certain extent of the main REMCO meeting this year, has been the preparation of Guide 35 on the Certification of Reference Materials - General and Statistical Principles. This draft should now be almost at the final stage both technically and editorially.

The second stage of the joint working group task, i.e., the preparation of ISO Guide on the use of reference materials, however, is just started. This work will be technically more difficult than the characterization of reference materials. As far as the members of committee are aware, no standard has been issued on this subject and the literature is very sketchy; nevertheless the delegates felt that, due to the importance of the subject, this work must be given priority. Based on the cooperation received from the members of the joint working group and the experience of working together with various personnel of the National Bureau of Standards (NBS), the writer feels that progress should be possible and Canada should contribute actively to this effort. For this reason it is recommended that Canada should continue her participation in the activities of the joint working group between ISO/REMCO and TC 69. The importance of the work of both committees to Canada is indirect, and is related to the contributions this work makes to the product committees.

APPENDIX A

REPORT OF THE MEETING OF ISO/TC 69/SC 6 - REMCO - JOINT WORKING GROUP

9 - 10 September 1983, Geneva

Participants: Dr. K.R. Eberhardt (USA),
Dr. T. Miyazu (Japan),
Dr. R. Sutarno (Canada),
Mr. G.A. Uriano (USA) and
Prof. Dr. P.T. Wilrich (F.R.G.).

Purpose: To review and discuss proposed ISO Guide 35, Certification of Reference Materials - General and Statistical Principles being prepared by REMCO (Reference ISO/REMCO 97, 98 and 99).

SUMMARY REPORT AND CONCLUSIONS

1) Work should continue as quickly as possible to revise and complete ISO Guide 35. The text material prepared as ISO/REMCO 97, 98 and 99 should be combined and published as a single Guide.

2) The participants recommended major changes to be made in the structure and organization of the guide. The participants met during the evening of 9 September to edit and reorganize the guide according to the following subject areas:

Chapter	Title
	Foreword
0	Introduction
1	The Role of Reference Materials in Measurement Systems (Text from ISO/REMCO 97 Sections 1.0 - 1.2)
2	Measurement Errors (ISO/REMCO 97, 1.6.3 - 1.6.7)
3	Homogeneity of Materials (ISO/REMCO 99 B.1.0 - B.3.2.2 should be combined and coalesced with ISO/REMCO 97 1.6.2 and ISO/REMCO 98 B)
4	General Principles of Certification (Mainly to be taken from ISO/REMCO 97 1.6. and 1.6.1)
5	Certification by a Definitive Method (Use text of ISO/REMCO 98 with extensive revisions of Section A)
6	Certification by Interlaboratory Consenses (Use Text of ISO/REMCO 99 with revisions of sections D 6 and D 7)
7	Examples of Reference Materials Use (Text from ISO/REMCO 97 1.3 - 1.5)
	References

../.

3) Drs. Eberhardt and Sutarno were asked to review the mathematical symbols used by the various authors to assure they are compatible with each other and also with ISO/TC 69 recommendations.

4) In addition to the major strucutral/format changes being made in ISO Guide 35, Drs. Eberhardt and Sutarno agreed to revise their Chapters according to the discussions held with the TC 69 participants.

5) It was agreed that much more work should be devoted to preparing basic material for a future Guide on the Use of CRM's - General Statistical Principles. Prof. Wilrich and Dr. Miyazu agreed to cooperate with REMCO on this project. Prof. Wilrich will bring the matter to the attention of TC 69/SC 6. The participants were referred to ISO/REMCO 72, previously prepared by Dr. Marschal and colleagues as a reference document for more thorough discussions on the use of reference materials. All joint working group participants and REMCO delegates are requested to send copies of relevant additional references pertaining to CRM usage to the working group for consideration. Mr. Uriano agreed to supply participants of copies of papers by Dr. J. Mandel of NBS, which relate to the subject of CRM usage.

6) Mr. Uriano agreed to present a draft of ISO Guide 35 with the major structural/ format changes made to ISO/REMCO at the ninth meeting. After comments are received from REMCO delegates, a revised text will be typed at NBS for distribution by mail in November 1983 and further reveiw of REMCO and ISO/TC 69/SC6. The objective is to prepare a text acceptable to both committees within the next six months.

George A. Uriano
Chairman, REMCO

September 11, 1983
Geneva.

APPENDIX B

Resolution 2:

Mr. Uriano is requested to edit a final version of ISO Guide 35, Certification of Reference Materials - General and Statistical Principles.

The delegates are requested to provide any additional comments and materials for inclusion in the document to Mr. Uriano before November 1, 1983.

Mr. Uriano is requested to complete the preparation of the document by December 1, 1983 for distribution by the Central Secretariat.

The Secretariat will arrange for review and final approval of the document by mail.

Résolution no. 2 :

M. Uriano est invité à rédiger un version finale du Guide ISO 35, Certification des Matériaux de Référence - Principes Généraux et Statistiques.

Les délégués sont priés de fournir à M. Uriano avant le 1er novembre 1983, tous commentaires ou matérial supplémentaires pour insertion au document.

M. Uriano est invité à terminer la préparation du document au 1er décembre 1983, pour distribution par le Secrétariat central.

Le Secrétariat prendra les dispositions nécessaires en vue d'examen et de l'approbation finale du document par correspondance.

Resolution 5:

The delegates request Drs. R. Sutarno and K.R. Eberhardt to prepare an expanded version of ISO/REMCO 72 on the use of reference materials in cooperation with ISO/TC 69. This document is intended to be used for publication as an ISO Guide. The draft guide should be circulated before the 10th meeting. Delegates are also requested to send examples illustrating the use of RM's to Dr. Eberhardt before 1984-01-01.

(This resolution is subject to editorial correction)